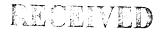
# DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES CHECK LIST - RECORDS RECEIVED AND WELL STATUS

COMPANY ERG Operating Compar	ny LLCW	ELL NO "Los Alamos" 322-DS
API NO. <u>083-22762</u>		SEC. <u>31</u> ,T. <u>9N</u> , R. <u>32W</u> , <u>S.B.</u> B.&M.
COUNTY Santa Barbara	FIELI	DCat Canyon
RECORDS RECEIVED	DATE	<u>STATUS</u>
Well Summary (Form OG100)	08-30-12	2 URD De
History (form OG103)	08-30-12	(Date)
Directional Survey	08-30-12	Engineer's Check List
Core Record and/or SWS (s drive)	08-30-12	Summary, History, & Core Record
Other:		Directional Survey
Electric logs:		Logs
Platform Express/Array Induction/SF	P/GR/MCFL	Operator's Name
Density/Neutron/Dielectric Scanner		Signature
Chronological Sample Taker/Gamm		Well Designation
<u>In</u>	06-28-12	Location Of GPS Location Received
Gamma Ray Collar/Cement Bond V	Vith Cast	/ Entered in Computer
(GR-DBL-Cast)	06-28-12	Notice
CBL (s drive)	08-30-12	T' Reports
Con dample 18-3012 S-3	Drive	Casing Record
Side Cord analysis 10-3-12 5	- Drive	- Plugs (Sfc. Plg Date)
		Final Sfc. Insp Date
		Production/Injection
	<del></del>	- E Well on Prod., enter EDP
		Computer
Clerical Check List		Drlg Table-TD
		(F: Annual Rept/Yr/Prelim Drlg Stat)
Form OGD121		Redrill & Deepen Depths
Location change (OG165		(F: Annual Rept/Yr/Prelim Drlg Stat)  Idle Well Status Change
Elevation change (GD16		(F: Idle/Idle Wells 2000/Idle Wells Master
Final Letter (OG159)		WSS Code or Status Changes
Release of Bond (OGD15	***	
Abdin WSS Notice of Records Due		
Request:		Map Work:
Request.		
		Follow Up: ( Ma PNU)
Scan Records 11 - 27 -	12	
		Records Approved JH 9/14/1017
OGD2		•



AUG 3 0 2012

OG100 (3/09)

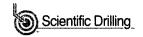
## NATURAL RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

DIMERSIONA	25/24	OAC	ANIC							_					
DIVISION OF CIL, GAS AND GEOTHERMAL RESOURCES WELL SUM							IARY	REP(	ORT		API No. 0	1-083-2276	2-0000		
Operator ERG OPERA	ATING (	COMP	ANY, LLC				Well Los Alar	nos 322-	DS						
Field (and A	rea, if a	pplicat	ole)				County SANTA BARBARA			Se 31			N B.&M. SB		
Location of well (Give surface location from property or section corner, stree 4246' S & 959' E of NW/4 of Section 31-T9N-R32W							t center line	center line) Elevation of ground above sea level: GL: 1090'					sea level:		
Lat./Long. in	decima	degre	es, to six decin	nal places,	NAD 83 for	mat: Lat:	34.809510	Lon	g: <b>-120.2922</b>	20					
Was the well BH Offse	direction	onally d 37.09	Irilled?	Yes ⊠ MD=3220	No If yes	s, show coo 197.56 Dist	ordinates (fr Btwn Surf/I	om surfa BH Loc =	ce location) a 367.0, LAT: 34	nd true ve 1.8088815	rtical dep , LONG: -1	h at total c 20.293175	epth.		
Commenced dri 6-9-12	•			(1st hole		l depth 2nd)	(3rd)	Depti	h measureme Jerrick Floor	nts taken	ken from top of: otary Table 🛛 Kelly Bushing				
Completed drillin 6-15-12				3220'				Whic	h is 12'		feet above ground.				
Commenced pro	Commenced production/injection (date)			Present e	ffective dep	th 3159'			LOGICAL MA squoc Fm.	RKERS		DEPTI 1358'	1		
Production mode:  Flowing			wing	Junk? De	escribe:			T. Fi	rst Sisquoc S quoc-S9 San			2695' 1947 2990'			
☑ Pumping ☐ Gas lift     Name of production/injection zone(s)															
Sisquoc Zor		injectio	n zone(s)												
									ation and age		epth		fresh water		
			Clean Oil	I API	Gravity	Percer	nt Water	r	Gas	Tubino	Pressure	Casi	ng Pressure		
		(b	obl per day)	(clean oil) (			(including emulsion)		of per day)						
Initial Productio	on	27		14.7		72%									
Production After 30 da		37		14.7		22%									
Size of Casing	Ιτο	p of	Depth of Shoe	CAS Weight of		CEMENTIN Ind Type of	G RECORU	RD (Present Hole)  Size of Number of Sacks			Denth o	Cementing	Top(s) of		
(Inches API)		sing	Deput of Once	Casing		asing	or Used (U)	Hole Drilled	Cubic Feet o				Cement in Annulus		
16"C.	0'		64'												
7"	0,		3200	23#	K-55, L	T&C,8rd	N	8-3/4"	655cf Type 168cf Class	III+SF+ G'T.S.	902	564 165			
									110cf,fr 54' as Top Job						
PERFORATE	D CAS	ING (S	Size, top, botton	, perforate	d intervals,	size and sp	pacing of pe	rforation	s, and method	i.)					
			e, Shot 2987' t 664' and @1925			, and 2085	10 2/01								
Logs/surveys GR / CBL / C	AST,		⊠ Yes □	•	s, list type(s	) and depth	n(s).				***				
Array Induct	ion: SF	/ GR/I	ker, w/ GR Tie MCFL / DENSI	TY / NEUT	RON/DI-E	LECTRIC S	CANNER		ban banasa ka			d			
the present of	ce with condition	ಶec. 3 on of ti	215, Division : he well and all	o, of the Pl work don	u <i>blic Hesol</i> e thereon, :	<i>urces Code</i> so far as c	e, the intori an be dete	mation g rmined f	rom all availa	n is a con	npiete an rds.	a correct	ecora or		
Name of pers Ben Oakley,			t		elephone N 305-361-711		Signatu	* S	W/A	1		Date 8-8-1	2		
Address 6085 Cat Car	nyon R	oad,					City/Sta Santa M	te Iaria, CA				Zip C 93454			
Individual to o		for tech	nnical questions		elephone N 05-722-242			E-Mail Address: SHorner@ERGresources.com							

SUBMIT IN DUPLICATE



# **SCIENTIFIC DRILLING** FINAL REPORT



Company: ERG Field:

CAT CANYON

Site:

**SECTION 31** 

Well: 322-DS

**322-DS SUR** Wellpath:

Date: 6/14/2012

Co-ordinate(NE) Reference:

Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:

Time: 14:56:07 : Well: 322-DS, Grid North

322-DS 1102.1

Well (0.00N,0.00E,230.48Azi) Minimum Curvature

Db: Sybase

1

Page:

Survey:

Survey #1

SCIENTIFIC DRILLING Company:

MWD;MWD

Start Date: Engineer: Tied-to:

6/8/2012 TIM PED

From Surface

Tool: Field:

CAT CANYON

SANTA BARBARA COUNTY

CALIFORNIA, USA

Map System: US State Plane Coordinate System 1983 Geo Datum: GRS 1980

Sys Datum: Mean Sea Level

Map Zone:

Coordinate System: Geomagnetic Model: California, Zone V Well Centre

**IGRF2010** 

Site:

**SECTION 31** 

SEC. 31, T9N, R32W, SB B&M

SANTA BARBARA COUNTY

Site Position: Map From: **Position Uncertainty:** 

Ground Level:

Well Position:

Northing: Easting:

2124000.00 ft 5873000.00 ft

Latitude:

34 48 25.866 N

Longitude: 120 17 North Reference:

39.933 W Grid

**Grid Convergence:** 

-1.31 deg

RECEIVED

Well:

322-DS

SUR. N 2124826.64, E 5873669.59 DPSI

0.00 ft

0.00 ft

+N/-S 826.64 ft Northing: +E/-W669.59 ft

2124826.64 ft Easting: 5873669.59 ft Slot Name: Latitude:

34 48 34.192 N AUG 3 0 2012

Position Uncertainty:

0.00 ft

47477 nT

Longitude:

120 17 32.131 W

322-DS

DIVISION OF DIL, GAS AND

GEOTHERMALI RÉSOURCES

Wellpath:

**Current Datum:** 

Magnetic Data:

Field Strength:

Vertical Section:

322-DS SUR

322-DS 6/8/2012 Height 1102.10 ft

Tie-on Depth: **Above System Datum:** Declination: Mag Dip Angle:

Drilled From:

0.00 ft

Mean Sea Level 13.06 deg 59.11 deg

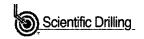
Depth From (TVD) +N/-S +E/-W Direction ft ft ft deg 0.00 0.00 0.00 230.48

Survey

Stn	CLen	MD	Incl	Azim	TVD	VS	N/S	E/W	DLS	Build	Turn	ClsD	ClsA
	ft	ft	deg	deg	tri figur	i ft e	ft	ft	deg/100f	tdeg/1001	tdeg/100ft	ft	deg
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	65.00	65.00	0.00	0.00	65.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	99.00	164.00	1.95	229.25	163.98	1.68	-1.10	-1.28	1.97	1.97	0.00	1.68	229.25
4	92.00	256.00	3.81	216.28	255.86	6.21	-4.59	-4.27	2.13	2.02	-14.10	6.27	222.96
5	91.00	347.00	5.33	233.97	346.57	13.36	-9.51	-9.48	2.26	1.67	19.44	13.43	224.91
6	90.00	437.00	6.53	237.45	436.09	22.62	-14.72	-17.17	1.39	1.33	3.87	22.62	229.39
7	90.00	527.00	6.53	240.41	525.51	32.74	-20.00	-25.94	0.37	0.00	3.29	32.75	232.36
8	90.00	617.00	6.31	231.36	614.95	42.72	-25.62	-34.25	1.15	-0.24	-10.06	42.77	233.21
9	99.00	716.00	8.26	232.19	713.14	55.27	-33.38	-44.12	1.97	1.97	0.84	55.32	232.89
10	95.00	811.00	7.37	231.16	807.26	68.19	-41.38	-54.26	0.95	-0.94	-1.08	68.24	232.67
11	191.00	1002.00	7.64	228.84	996.62	93.13	-57.42	-73.36	0.21	0.14	-1.21	93.16	231.95
12	96.00	1098.00	7.68	226.93	1091.77	105.91	-66.00	-82.85	0.27	0.04	-1.99	105.92	231.46
13	92.00	1190.00	7.69	231.50	1182.94	118.20	-74.03	-92.16	0.66	0.01	4.97	118.21	231.22
14	96.00	1286.00	7.87	229.79	1278.06	131.19	-82.27	-102.20	0.31	0.19	-1.78	131.20	231.17
15	94.00	1380.00	7.82	228.82	1371.18	144.02	-90.64	-111.93	0.15	-0.05	-1.03	144.03	231.00
16	96.00	1476.00	7.64	224.24	1466.31	156.89	-99.51	-121.30	0.67	-0.19	-4.77	156.89	230.64
17	95.00	1571.00	6.61	236.94	1560.58	168.60	-107.02	-130.29	1.97	-1.08	13.37	168.60	230.60
18	96.00	1667.00	6.44	235.55	1655.95	179.46	-113.08	-139.36	0.24	-0.18	-1.45	179.46	230.94
19	95.00	1762.00	6.52	230.98	1750.35	190.16	-119.49	-147.94	0.55	0.08	-4.81	190.17	231.07
20	97.00	1859.00	6.65	228.85	1846.71	201.28	-126.65	-156.45	0.29	0.13	-2.20	201.29	231.01
21	96.00	1955.00	6.81	226.47	1942.05	212.51	-134.23	-164.76	0.33	0.17	-2.48	212.52	230.83
22	127.00	2082.00	7.12	231.94	2068.11	227.89	-144.27	-176.42	0.58	0.24	4.31	227.89	230.73
23	96.00	2178.00	7.02	229.36	2163.38	239.70	-151.75	-185.55	0.35	-0.10	-2.69	239.71	230.72
24	96.00	2274.00	7.25	230.41	2258.64	251.63	-159.44	-194.67	0.28	0.24	1.09	251.63	230.68



# **SCIENTIFIC DRILLING** FINAL REPORT



Company: ERG Field:

Site:

CAT CANYON SECTION 31 Well: 322-DS Wellpath: 322-DS SUR

Date: 6/14/2012

Vertical (TVD) Reference:

Survey Calculation Method:

Section (VS) Reference:

Co-ordinate(NE) Reference:

Page:

Time: 14:56:07 e: Well: 322-DS, Grid North 322-DS 1102.1

Well (0.00N,0.00E,230.48Azi)

Minimum Curvature

Db: Sybase

2

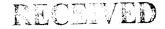
Survey

Stn	CLen ft	MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W	DLS deg/100f	Build tdeg/100fi	Turn tdeg/100ft	ClsD ft	ClsA deg
25	96.00	2370.00	7.11	230.12	2353.89	263.63	-167.11	-203.90	0.15	-0.15	-0.30	263.63	230.66
26	95.00	2465.00	7.03	230.00	2448.16	275.32	-174.61	-212.87	0.09	-0.08	-0.13	275.32	230.64
27	97.00	2562.00	6.76	231.95	2544.46	286.96	-181.95	-221.91	0.37	-0.28	2.01	286.96	230.65
28	95.00	2657.00	6.67	235.06	2638.81	298.05	-188.55	-230.83	0.39	-0.09	3.27	298.05	230.76
29	96.00	2753.00	7.16	232.82	2734.11	309.59	-195.36	-240.17	0.58	0.51	-2.33	309.59	230.87
30	142.00	2895.00	7.22	233.62	2875.00	327.34	-206.00	-254.41	0.08	0.04	0.56	327.35	231.00
31	48.00	2943.00	7.07	234.10	2922.62	333.30	-209.52	-259.23	0.34	-0.31	1.00	333.31	231.05
32	96.00	3039.00	7.12	235.96	3017.89	345.12	-216.32	-268.94	0.24	0.05	1.94	345.14	231.19
33	96.00	3135.00	6.89	235.96	3113.17	356.77	-222.87	-278.64	0.24	-0.24	0.00	356.81	231.35
34	85.00	3220.00	6.89	235.96	3197.56	366.92	-228.58	-287.09	0.00	0.00	0.00	366.98	231.47

RECEIVED

AUG 3 0 2012

DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES



AUG 3 0 2012

DIVISION OF CIL, GAS AND GEOTHERMAL RESOURCES

RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

NO. LETTES NO. 114 121

RCES
/FILL

HISTORY OF OIL OR GAS WELL

	•	-			
Operator ERG OPERATING COMPANY, LLC	Field CAT CANYON			County SANTA	BARBARA
Well Los Alamos 322-DS		Sec. 31	T. 9N	R. 32w	SBB.&M.
A.P.I. No. <u>04-083-22762</u>	Name Ben Oakley		Title Age	ent	
Date <u>7/27/2012</u> (Month, day, year)	(Person submitting	report)	Co	President, Secretary,	or Agent)
Address 6085 Cat Canyon Rd, Santa Maria, CA 93454		Te	lephone Nu	mber <u>805-361-7</u>	112

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

	, , , , , , , , , , , , , , , , , , , ,
Date: 6-9-12	MIRU Nabors Rig 472 on LA #322-DS in Section 31-T9N-R32W SBB&M, Santa Barbara County, CA. Wellhead located 4246' S & 959' E of NW/4 of Section 31-T9N-R32W. GL = 1090',KB + 12', RKB = 1102'.NU 11" Class IIA 2M BOPE w/ 6" Diverter on 16" x 11" Starter Flange, start operations @ 13:00 hrs 6/9/12.MU 8-3/4" PDC bit on directional BHA. Spud well at 21:00 hrs. Rotary / Directional drill 8-3/4" hole f/ 64' to 422'.
6-10-12	Rotary / Directional drill 8-3/4" hole f/ 422' to 825' w/ full returns. Circulate & condition mud @ 825' due to well flowing, Weight up check flow (no flow.) Wipe 8-3/4" hole f/ 825' to 134'. RIH to 825'. Rotary / Directional drill 8-3/4" hole f/ 825' to 2100' w/ full returns.
6-11-12	Change head in # 1 pump. Rotary / Directional drill f/ 2100' to 2128'. Full returns. Circulate hole clean. Send high vis sweep. Wipe 8-3/4" hole f/ 2128' to 1069'. Pulled 20k over string weight. RIH t/ 2128'.Rotary / Directional drill f/2128' to 2735'. Pack off @ 2735. Lost 75bbls of mud. Wipe 8-3/4" hole f/ 2735' to 2000' Pulled 40k over string weight. RIH to 2735'.Rotary / Directional drill 8-3/4" hole f/2735' to 3220' TD w/ 90% returns, adding LCM every connection. Circulate hole clean. Send 2 high vis sweep. w/ 95% returns. POOH f/ 3220' TD to 1500'.
6-12-12	Continue to POOH f/ 1500'. Lay down directional tools & clear walk. MU 8-3/4" stable drill hole opener & stabs at 30 & 60.Ream f/ 64' to 3220' TD. w/ full returns. Circulate hole clean, pump high vis sweep. POOH f/ 3220' for E-logs
6-13-12	POOH w/ HO reaming assy from wiper trip. HSM w/ Schlumberger, RU WL & ran Platform Express, AI, SP, GR, MCFL, Density Neutron, Dielectric f/3210' to 64'. RIH w/ SW gun & took 30 core samples f/ 3206' to 2682', recovered 30. RD WL. RIH w/ HO reaming assy to TD 3220'.Circ & cond, pumped hi-vis sweep, circ hole clean. POOH LD DP & reaming assy. HSM w/ West Coast tong crew, RU tongs and start running 7" casing.

Ran 82 jts 7" 23# K-55 LTC 8rd casing w/ shoe @ 3200', FC @ 3159'. Lost circulation. Mixed & pumped 200 bbl 40 ppb LCM pill. Mixed & pumped 200 bbl 50 ppb LCM pill, pump pressure rose to 480 psi w/o circ. Filled annulus w/ 8 bbls water, no loss. Concluded pack-off. Wait on trucks to wash out and park on tight location. RU BJ cementers. Drop bottom plug, filled & tested lines 3970 psi. Pumped 20 bbls mud flush & 20 bbls 11.5 ppg spacer, ahead of 117 bbls (228 sx - 655 cf) Type III lead --

6-14-12

# RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

#### HISTORY OF OIL OR GAS WELL

6-14-12 cont.

cmt w/ additives @ 12.5 ppg & 2.87 cf/sk yield followed by 30 bbls (115 sx - 168 cf) Class G tail cmt w/ additives @ 15.8 ppg & 1.52 cf/sk yield. Dropped top plug & disp csg w/ 125 bbls lease water. Slowed to 2 bpm when lead hit shoe, 5 min/10 bbls, resumed to 5 bpm & bumped plug w/ 2132 psi. Checked floats - OK. Partial mud flush returns while displacing, no cement returns to surface. CIP @ 0100 hrs 6/15/12.RD BJ.

6-15-12

Slack off 7" csg, shimmed to center. ND Class IIA BOPE, Lifted BOP & made rough cut on 7" csg, set out BOP, cut off 16" starter flange/diverter, cut & dress 7" csg. Prep weld on WH. Weld on 7" SOW x 7.0625" wellhead. Test to 1500 psi. Capped & secured well. Released Nabors 472 at 0900 6/15/12.

6-21-12

#### **WORKOVER / COMPLETION REPORT**

Held J.S.A. and serviced rig spotted rig mat moved in rigged up. Rigged up Tiger wire line. RIH down to 2564' and shot four 1/2" holes. POOH rigged down wire line. Made up 7"- 23# retainer. R.I.H. picking up off the ground set retainer with the center of the element @ 2516' pressured casing to 500 P.S.I. tested retainer. Rigged up cementer's and tested lines to 2500 P.S.I. then established an injection rate. Un-stung from retainer mixed and pumped 10 barrels of class G cement with 35 % silica flour + 0.5 % f1-62 + 0.5 % cd-32 + 0.2 % sodium meta-silicate 0.01 % anti-foamer. Stung back in displaced cement with 11 barrels of fresh water at a rate of 3 barrels a minute at 320 P.S.I. Unstung and flushed tubing with 3 barrel's. Rigged down cementer's and POOH removed stinger and closed well in.

6-22-12

Rigged up wire line. R.I.H. and shot 6- 1/2" holes @ 1925' POOH. Made up 7"- 23 # retainer. R.I.H. down to 1879'. Set retainer and tested to 500 P.S.I. Rigged up cementer's and tested lines to 2500 P.S.I. Established an injection rate and mixed 20 barrels of class G cement with 35 % silica flour + 0.5 % fluid loss additive + 0.5,% dispersant + 0.2 % sodium meta-silicate + 0.01 % anti foamer. Pump slurry at 650 P.S.I.at 4 barrel's a minute. Unstung from retainer and flushed tubing with 3 barrels. D.O.G. waived witnessing of squeeze by Ross Brunetti. Rigged down cementer's and POOH removed retainer stinger. Moved in and spotted drill collars, swab equipment and power swivel. Made up 6 1/8" Verlin special mill, picked up and tallied four 4 3/4" drill collar's, ran one joint of 3 1/2" and closed well in.

6-23-12

Continue running in the hole and tagged cement @ 1874'. Picked up power swivel and started drilling out retainer. Went down 6' and hit retainer @ 1879'. Took 7 hours to get through. Continued drilling cement plug with 6-1/8" Verlin special mill. Took 2 hours to get threw 30'. Went through at a connection. Removed power swivel ran one stand to make sure we were through. POOH standing back drill collars. Inspected mill - it was wore down to one inch.

6-24-12

Broke out mill. Made up 6 -1/8" junk mill. R.I.H. and tagged cement at 2400'. Picked uppower swivel, tested casing to 500 P.S.I., held, Started cleanout, very slow drilling with mill cleaned out to 2470'. Removed power swivel pulled up high and closed well in will continue in morning.

LA Los Alamos #322-DS cont'd

21

#### RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

#### HISTORY OF OIL OR GAS WELL

6-25-12

LA #322-DS, Serviced rig & POOH. Removed mill & made up 6 1/8" rock bit. R.I.H. lost a valve on mud pit. Removed cap's found rock in one valve button back up and continued drilling out at 2470'. Hit retainer @ 2516' drilled through, ran pipe to bottom at 3159' and pressured up casing to 300 P.S.I., held tight, & turned hole over until returns were clean. Laid down one joint and closed well in.

6-26-12

Made up swab equipment. Swabbed down to 1600'. Laid swab equipment down and POOH. Stood back drill collars & rigged up wire line. R.I.H. with perforating gun and first gun did not fire. POOH, fixed gun, ran back in and shot holes from 2987' to 3005'. POOH and laid gun down. Made up second gun and shot holes from: 2744' to 2760'. Laid gun down made up third gun ran down and shot holes from; 2685' to 2701'. Rigged down wire line and closed well in.

6-28-12

Held J.S.A. and serviced the rig. Laid down drill collars and 10 joints of 3 1/2". Ran pump jacket T/L shoe and 83 joints of 3 1/2". Landed doughnut and removed work floor & B.O.P.E. Nippled up production 'T' and well head. Picked up pump bucket, tested. Ran 3 rods & made up left hand box and R.I.H., Stacked out high, POOH, Rod count was off. Counted R.I.H. spaced well out 86 7/8" rods. Closed well in. Loaded out equipment & removed guide lines. RDMO.

7-2-12

RU cementers. Run PVC down to 54 FT. Cement to surface w/ 110 CU-FT as top job, complete, FINAL.

See Wellbore Schematic, Next Page

Los Alamos #322-DS cont'd

## HISTORY OF OIL OR GAS WELL

#### **WELLBORE SCHEMATIC: Wellbore Schematic** Operator E.H.G. Operating U.U. Field/Lease Los Alamos 322-D.S. L/A 322-D.S. CC564C Well# AFE# RIVAL#4 Pusher Dean Thomas Date Start 6/20/2012 6/27/2012 Complete landed on dougnut well head 6" 900 series Surface Equipment Kelly Bushing Wellhead 6" 900 series Pumping Unit Crank Slot Strokes/Min Stroke Lgth Casing Csg Size Weight Top - Bottom Perfs/Slots 0--3159 2685'--3005' Tubing Breakdown Breakdown Length Depth 0.00 0.00 7" 23 # 0 to 3159' 3 1/2" F/N 1.10 0.00 83 joint's of 3 1/2 J-55 2648.37 1.10 3 1/2" T/L shoe 0.66 2649.47 pump Jacket full joint for clean out no holes 32.47 2650.13 2682.60 over all #VALUE! #VALUE! #VALUE! #VALUE! #VALUE! #VALUE! #VALUE! #VALUE! top perf 2685' therd gun 2685' to 2701' second gun 2744 to 2760' first gun 2987' to 3005' bottom perf 3005' LEFT HAND BOX 3 ROO'S ABOVE THE PUMP Size Number Length Make Guides 7/8" 86 2580 NO 104' of rat hole 0 0 ۵ → PBTD 3159' Rod Subs 7/8" X 8' 7/8" x 8' 7/8" x 4' 20' total Polished Rod 1 1/2" X 30"

LA #322-DS

Pump Data 3" X2 1/4" X20 R.H.AM. with P.A. plunger Q--765

#### FINAL LOCATION OF WELL LA-322-DS LOCATED IN THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 31, TOWNSHIP 9 NORTH, RANGE 32 WEST, S.B.M. COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA FD. THE NORTHEAST FD. 2.5 IN BC FOR THE CORNER OF SECTION 31 NORTHWEST CORNER OF N 2128926.40 SECTION 31 E 5878252.68 N 2129103.55 36 31 E 5872856.08 31 RECEIVED SW 1/4 OF THE SW 1/4 OF SB.M. SB.M. ALAMOS) SEC. 31, T. 9 N., R. ANCHO LOS ALAMOS) SEC. DOT 37 OF RANCHO AUG 3 0 2012 DIVISION OF OIL, CAS AND ш GEOTHERMAL RESOURCES .21 01.57 z LA-322-DS LATITUDE: 34'48'34.24" LONGITUDE: 120'17'31.99" LAT(DD): 34.809510 LONG(DD): 120.292220 GRID N: 2124826.64 90, GRID E: 5873669.59 ELEV: 1090.10' N 88.02,03, M 959.62 800' 0 800' SCALE: 1"=800" GEOGRAPHIC COORDINATES BASIS OF BEARINGS PROJECT BENCHMARK GEOGRAPHIC COORDINATES SHOWN HEREON THE TOP OF THE 3" DIAMETER BRASS CAP MARKED THE GRID BEARING OF S01'44'42"W "SANTA BARBARA CO. SURVEY MON.", AT THE INTERSECTION OF CLARK AVENUE AND DOMINION ROAD DESIGNATED AS STATION No. 1132 ON RECORD OF SURVEY, BOOK 147, PAGES 57–61, WAS USED AS THE BENCH MARK HEREON. FOR LONGITUDE AND LATITUDE ARE BASED ON CORPSCON CONVERSION FROM NAD83 BETWEEN SANTA BARBARA COUNTY SURVEY MONUMENT STATION NO.'S 1131 GEOGRAPHIC COORDINATES TO NAD83 STATE PLANE COORDINATES. AND 1132 AS SHOWN ON RECORD OF SURVEY, BOOK 147, PAGES 57-61, WAS USED AS THE BASIS OF BEARINGS HEREON. ELEVATION = 634.57' (NAVD 88) **NOTES** BUREAU OF LAND MANAGEMENT RECORD INFORMATION SHOWN HEREON IS ONLY TO BE USED AS RECORD INFORMATION AND NOT AS A BOUNDARY SURVEY. SECTION INFORMATION PROVIDED IS BASED ON ERG Resources, L.L.C ESTIMATED SECTION LINES HAD THE RANCHO

DRAWN BY:

GM

NOT BEEN IN PLACE.

Boxersfield, CA (661) 371-2800

F-16

DIVERSIFIED PROJECT SERVICES INTERNATIONAL

18

06/08/12

ERG WELL LOCATIONS

FINAL LOCATION OF WELL LA-322-DS

JGZ

DATE:

CHECKED BY:

#### 6/19-20/2012

Memo of phone conversation

Ross Brunetti, AOGE

ERG Operating Co. "Los Alamos" 322-DS

Steve Horner, Engineer

Lost circulation during cement job on 7" casing. CBL shows top of good cement at 2710'

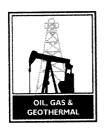
ERG proposes to only perforate the S9, top 2992', for production at this time

DOGGR will require squeeze cementing above the S1B at 1944'. ERG will perforate at  $1925'\pm$ , and attempt to bring cement to surface, or at least to 1444', DOGGR to witness.

BFW is at about 910'. A BFW squeeze will not be required at this time, but must be performed when the well is abandoned.

Note, lead slurry was Type III with 10% microspheres and 10% gypsum, which may not show well on a CBL. I suspect the actual TOC may be closer to 250'.





# NA :AL RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES 195 S Broadway, Suite 101 Orcutt, CA 93455-4655

No. T 312-0427

Phone:(805) 937-7246 Fax:(805) 937-0673

## REPORT ON OPERATIONS

Ben Oakley
ERG Operating Company, LLC (E0255)
6085 Cat Canyon Road
Santa Maria, CA 93454

Orcutt, California November 20, 2012

Your operations at well "Los Alamos" 322-DS, A.P.I. No. 083-22762, Sec. 31, T. 09N, R. 32W, SB B.&M., Cat Canyon field, in Santa Barbara County, were witnessed on 6/11/2012, by Christi Nielson-Kelly, a representative of the supervisor.

The operations were performed for the purpose of function testing the blowout prevention equipment and installation.

**DECISION:** 

**APPROVED** 

cc: Santa Barbara County Petroleum

	Tim Kustic
CN:cb	State Oil and Gas Supervisor
	By Padlee1
	Patricia A. Abel, District Deputy  62 R. Brunetti
OG109 (Rev. 10/2011)	

API No.	, 082	3-2	2762	· .	DIV	ISION	OF OIL	, GAS, A	ND GEOTHE	RMAL F	RESO	URCE	S	т	312	-042	2.7%
*									ΓΙΟΝ E					EMO	احدر	B	<u>- 7</u>
	. •	· · · ·	E120		perating	_									_		î., 
Operator Field			Cat		YON J	u, L		vell ounty	Santa B	achor	7 7	222	ב <u>ון־</u> s	ec <u>. <i>3</i>1</u>	T. <u>9</u>	<u>V</u> R.	121
VISITS:		Date	<u>, Carr</u>	· ·	Engine	eer	· ·	ounty	Time	n em			S <i>or's Re</i>	pud Date		Title	
1st	•	6/1	1/12	<b>.</b> .	U.V			(121		) ,	-	<u>operat</u> M	art	De Gagr	no 1	1100	•
2nd		<del>~/ /</del>	1		<u> </u>	71		. ( <u>. 1 6</u> 2	to	/ _			1001	DC GLOST		100 DO	4
Contrac	ctor		1	apor	4		Rig#	` 47		/ actor's F	Pen &	Title	M	ark.	M	woo	2/11/
	record of	well:	-, -	- 00.					D COIN	actor 3 i	top. u	1146	N/	YHPr	11 L.W	NV OG	)
	<del></del>													,,			<u></u>
			- 60	unctro	· ·		•	. '			1		1				
	OPEI DECI	RATIC SION:	N;/Te	esting (in	specting	) the l	blowout uipment	preventio and its in	n equipment : stallation on t	and inst	allatio	n. Crit		ell? Y [ asing are			
Propose	ed Well O	ons.	•	dril	lina		•		. MACF	).				PEOLIP	ED BOI	PE CLAS	<u> </u>
lole siz		" fr.		' to	11.5	1		" to	WACI	•	" to		psi '	6 dive		L OLAS	J.
			ORD	OF BOP	E ANCH	IOR S	TRING			Ca	ment i			W CAN VC		op of Cer	nont.
Size		ght(s)		Grade(s		Shoe	at	CP at			illeilt i	Detail	<u> </u>				nent Innulus
16"			uet		<del>-</del>	64	<del>i                                    </del>		Eurly.	e RI	0//.	44	011	1-MX			urf
·····	,	U O	141	B~1		U I		- 44.5	Sur ru	e pu	ur,		uace	Y HI LIX	+	=	my
				BC	P STAC	K		5 4"					<del></del>	EST DAT	ΓΔ		<del></del>
	Ram				1 0170	T	Vert.		Date	Gal.	Re	cov.	Calc.	psi	Secs.	T	Fun
API	Size				Мо	del	Bore	Pres		to	]		GPM	Drop to		Test	Tes
Symb.	(in.)	N	/lanufa	cturer	or T	ype	Size (in			Close			Output		Close		
Δ	_	1	dn	11:	(ak	EID	71	311		6.32	<del>                                     </del>		••••			611/12	OK
ICR	60	- / [ [		-10	- UF	- 1.0	6	<u> </u>		2.25	-					41.11.6	10
100	4		JTIC	<u> </u>			<u> </u>			2.23	<u> </u>		<del></del>			<del> </del>	-
					+	-			<del></del>					<del> </del>			
			<del></del>				•									<del>                                     </del>	
<del></del>		ACT	HATIN	IG SYS	TEM				ΓΟΤΑL:	8,57	ALI	VILLA	DV CO	LUDBATA	<u> </u>		ļ
ccumul	ator Unit					<u>m</u> ,	ei 🤺		IOIAL.	0, 31	AU	AILIA	KIEG	UIPMEN			<del> </del>
otal Rat	ted Pump	Outp	ut		om		id Level							-	Connecti	ons	Func
	from We			577/ft.									.	Weld	Flange	Thread	Tat
Accui	m. Manu	facture	∍r	Cap	acity	Pre	charge	V Fill	-up Line	¥ .	Sad.	1850.43				s ka Piteli	8K
	mme	4/ 1	Law		gal.			i V Kill				0	2 0		H 51 1	/	\
1	7/1 <b>/11</b> 1 4 5	7	7		gal.		ps		ontrol Valve(s	s)	man zelas		3M 3M			-	
CO	NTROL	STAT	IONS			Hyd,	Pneu		neck Valve(s)		-	1.4	<b>- 0"</b>	·  .			
	ifold at a					V	1		JX. Pump Co			17	- 3M	<u> </u>		1	
Rem	note at Dr	iller's	station				V		oke Line			6	- 10			<del>-</del>	
Othe									ontrol Valve(s	) HCD	<u> </u>	-				1	-
EMEF	RG. BAC	KUP S	SYSTE	M	Press.	W	kg. Fluid		essure Gaug				100	.;"		<del></del>	-/
NI C					2200	17			justable Cho				1				1
- 1 IV2 U	ylinders	1	L=   {	56"	7-1311		. 1 941	.   AC	gustable Cito	Ke(s)			J				1
Othe	<u> </u>	-1	L= {	56			1			Ke(s)		10	12.75			γ	1 .
	<u> </u>			V "	260		7 gal	. V BI	eed Line			(p	2. Ap.			<u>. <b>γ</b></u> 31. (7. )	(
	<u> </u>	2	L=	1/ "			1	. ✓ Bl	eed Line er Kelly Coc	k		4	12.75			• <b>*</b> • <b>*</b> /4	
	<u> </u>	3 4	L= L=	V "			7 gal gal gal	. ✓ Bl . ✓ Upp Low	eed Line per Kelly Coc ver Kelly Coc	k K			12.3				
	<u> </u>	2 3 4 5	L= L= L=	4 4			gal gal gal	. ✓ BI ✓ Upp Low ✓ Sta	eed Line per Kelly Cock ver Kelly Cock ndpipe Valve	k k							
	<u> </u>	2 3 4 5	L= L= L= L=	# # # # # # # # # # # # # # # # # # #		a	7 gal gal gal gal gal	BI Upp Low Sta V Sta	eed Line per Kelly Coc ver Kelly Coc ndpipe Valve ndpipe Press	k k		MAN AND AND AND AND AND AND AND AND AND A					
Othe	<u> </u>	2 3 4 5 6	L= L= L= L=	и и и тот	ZleOD	a	7 gal gal gal gal gal	BI Upp Low Sta V Sta V Pipe	eed Line per Kelly Cock ver Kelly Cock ndpipe Valve ndpipe Press e Safety Valve	k k		4.5	3 k				
Othe	er:	2 3 4 5 6	L= L= L= L=	и и и тот	ZleO	16	7 gal gal gal gal gal	BI V Upp Low Sta V Sta V Pipe V Inte	eed Line per Kelly Cock ver Kelly Cock ndpipe Valve ndpipe Press e Safety Valve rnal Prevente	k k . Gau. e		MAN AND AND AND AND AND AND AND AND AND A	3×		(Tyne &		
Othe HC MO	er: OLE FLUI	2 3 4 5 6	L= L= L= L=	u u u TOT	ZleOD	16	7 gal gal gal gal gal gal Class	BI V Upp Low Sta V Sta V Pipe V Inte	eed Line per Kelly Cock ver Kelly Cock ndpipe Valve ndpipe Press e Safety Valve rnal Prevente Fluid Type	k k Gau. e er		4.5 4.5	31x V	rage Pits	(Type &		
Othe HC MO	OLE FLUI ONITORIN	2 3 4 5 6 D NG	L= L= L= L=	u u u TOT	ZleO	16	7 gal gal gal gal gal gal Class	BI V Upp Low Sta V Sta V Pipe V Inte	eed Line per Kelly Cock ver Kelly Cock ndpipe Valve ndpipe Press e Safety Valve rnal Prevente	k k . Gau. e		4.5 4.5	3×	rage Pits	(Type &		
Othe HC MO Calib	OLE FLUI ONITORIN brated Mu	2 3 4 5 6 D IG ud Pit	L= L= L= L= /	u u u TOT	ZleO	16	7 gal gal gal gal gal gal Class	V BI V Upp Low V Sta V Sta V Pipo V Inte Hole	peed Line per Kelly Cock per Kelly Cock per Kelly Cock ped Cock pe	Gau. ee Weig	ght	4.5 4.5	31x V	rage Pits	(Type &		
Othe HC MO Calib Pit L	OLE FLUI DNITORIN brated Mu evel Indic	2 3 4 5 6 D NG ud Pit cator	L= L= L= L= /	u u u TOT	ZleO	16	gal gal gal gal gal gal Class	V BI V Upp Low V Sta V Sta V Pipo V Inte Hole	eed Line per Kelly Cock ver Kelly Cock ndpipe Valve ndpipe Press e Safety Valve rnal Prevente Fluid Type	Gau. ee Weig	ght	4.5 4.5	31x V	rage Pits	(Type &		
Othe  HC MO Calib Pit L Pum Pit L	OLE FLUI DNITORIN brated Mu evel India p Stroke	2 3 4 5 6 D NG ud Pit cator	L= L= L= L= /	u u u TOT	ZleO	16	gal gal gal gal gal gal Class	V BI V Upp Low V Sta V Sta V Pipo V Inte Hole	peed Line per Kelly Cock per Kelly Cock per Kelly Cock ped Cock pe	Gau. ee Weig	ght	4.5 4.5	31x V	rage Pits	(Type &		
HC MO Calib Pit L Pum Pit L Flow	OLE FLUI ONITORIN brated Mu evel India p Stroke evel Rec	2 3 4 5 6 D NG ad Pit cator Count	L= L= L= L= /	u u u TOT	ZleO	16	7 gal gal gal gal gal gal Class	V BI V Upp Low V Sta V Sta V Pipo V Inte Hole	peed Line per Kelly Cock per Kelly Cock per Kelly Cock ped Cock pe	Gau. ee Weig	ght	4.5 4.5	31x V	rage Pits	(Type &		
Othe  HO MO Calib Pit Lo Pum Pit Lo Flow Mud	OLE FLUI ONITORIN brated Mu evel India p Stroke evel Reco	2 3 4 5 6 D NG ad Pit cator Count	L= L= L= L= L=	u u u TOT	ZleO	16	7 gal gal gal gal gal gal Class	V BI V Upp Low V Sta V Sta V Pipo V Inte Hole	peed Line per Kelly Cock per Kelly Cock per Kelly Cock ped Cock pe	Gau. ee Weig	ght	4.5 4.5	31x V	rage Pits	(Type &		
Othe  HO MO Calib Pit Lo Pum Pit Lo Flow Mud	OLE FLUI DNITORIN brated Mu evel India p Stroke evel Rec v Sensor Totalizer brated Tri	2 3 4 5 6 D NG ad Pit cator Count	L= L= L= L= L=	u u u TOT	ZleO	16	7 gal gal gal gal gal gal Class	V BI V Upp Low V Sta V Sta V Pipo V Inte Hole	peed Line per Kelly Cock per Kelly Cock per Kelly Cock ped Cock pe	Gau. ee Weig	ght	4.5 4.5	31x V	rage Pits	(Type &		\$)
HC MO Calib Pit L Pum Pit L Flow Mud Calib	OLE FLUI DNITORIN brated Mu evel India p Stroke evel Rec v Sensor Totalizer brated Tri	2 3 4 5 6 D NG ad Pit cator Count	L= L= L= L= L=	u u u TOT	ZleO	16	7 gal gal gal gal gal gal Class	V BI V Upp Low V Sta V Sta V Pipo V Inte Hole	peed Line per Kelly Cock per Kelly Cock per Kelly Cock ped Cock pe	Gau. ee Weig	ght	4.5 4.5	31x V	rage Pits	(Type &		5)



# NATURAL RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES 5075 S. Bradley Rd., Suite 221 Santa Maria, CA 93455 - 5077

# PERMIT TO CONDUCT WELL OPERATIONS

NO. P 312- LU 9
Old New
- 128
FIELD CODE 21
AREA CODE - 00
DOO! COOS

Santa Maria, California Mられるな。2012

Ben Oakley, Agent ERG Operating Company, LLC (E0255) 6085 Cat Canyon Rd. Santa Maria, CA 93456

Your proposal to drill well "Los Alamos" 322-DSA P.I. No.063-227 Section 3/T.09 M. R. 32W, SB B. & M., Cat Canyon field, West area, Any pool, Santa Barbara County, dated 3/30/2012, received 5/8// 2 has been examined in conjunction with records filed in this office.

#### THE PROPOSAL IS APPROVED PROVIDED:

- 4. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements:
  - a. A 6" diverter system on the 16" casing.
  - b. Class II2M, with hydraulic controls, on the 7" casing.
- 2. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
- No program changes are made without prior Division approval.
- 4. This well may not be suspended for more than two years without Division approval.
- 5. THIS DIVISION SHALL BE NOTIFIED TO:
  - Inspect the diverter system prior to commencing drilling operations.

#### NOTE:

- Hydrogen sulfide gas (H2S) is known to be present in this area and adequate safety precautions shall be taken prior to and during well operations.
- 2. Unlined sumps containing harmful water are not to be located over freshwater bearing aquifers.
- 3. Well operations shall be conducted in compliance with field rule No. 307-025, dated June 12, 2007.
- The Division routinely monitors monthly well production data and if anomalous water production is indicated, remedial action will be ordered.

사람이 있는 사람들이 되었다. 그런 사람들이 얼마나 하는 것이 되었다. 그래 있는 것들은 사람들이 되었다. 그런 사람들이 얼마나 하는 것이 되었다.	Tim Kustic
Blanket Bond	State Oil and Gas Supervisor
cc: Santa Barbara County Petroleum/Well File	Ale !
Engineer Brunetti Ross	
Office <u>{805} 937-7246</u>	De Shel
선거, 이 생님, 하는 것이 되었다. 그 얼마를 받는데 되었다.	Patricia A Abel, District Deputy

RB:cb

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended. Issuance of this permit does not affect the Operator's responsibility to comply with other applicable state, federal, and local laws, regulations, and ordinances.

OG111 (revised 5/2011)

# RECEIVED



NATURAL RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF CONSERVATION DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

1	F	OR DIVISIO	N USE ON	LY	1
		For	ms		1
	Bond	OGD114	OGD121		
D	aula	5/12	3/12		$ \infty$
<i>) </i> `			4		•

## NOTICE OF INTENTION TO DRILL NEW WELL

Detailed instructions can be found at: www.conservation.ca.gov/dog/

In compliance	with Secti	ion 3203, Divisi Alamos	on 3, Public Re 322 - D	sources Code  well type	o, notice is hereby <u>Producer</u>	given that it is our in	283-2276X
Sec. 31	, T.9N	, R. 32W	SB B.&M	. Cat Canyo	Field		Assigned by Division)  County.
Legal descript	tion of min	eral-right lease	, consisting of	10	acres (attach map	or plat to scale), is as	follows:
Do mineral an and map or pl			? Yes⊠ No[	]. If answer is	s no, attach legal d	escription of both sur	face and mineral leases,
Location of we	eli <u>4318</u>	feet So	outh along		property 🔲 line a	nd 931	feet East /
at right angles	to said lin	e from the N	V	con	ner of section 🛛 /		and
Lat./Long. in c	lecimal de	grees, to six de	cimal places, N	IAD 83 format	: Latitude: 34.809	heckene) 509 Longitud	de: -120.292219
If well is to be	directiona	lly drilled, show	proposed coo	rdinates (from	surface location) a	nd true vertical depth	at total depth:
223 fee	t <u>South</u>	and 271	feet <u>Wcst</u>	Estimate	d true vertical dept	h <u>2996</u> . E	levation of ground
above sea lev	el 1090		Measurement:		op of Kelly Bushin	g that is 12	feet above ground.
EL this a critica	1102 K	Bafined in the Co	alifornia Code d	•	Perick Floor, Rolary Table,	x Kelly Bushing) 1720(a) (see next pag	na)? Yas Tan Nal XI
				-		? Yes⊠ No⊟ If ye	
					NG PROGRAM		
SIZE OF CASING (Inches API)	WEIGHT	GRADE AND TYPE	TOP	воттом	CEMENTING DEPTHS	FORMATION PRESSURE (Estimated Maximum)	CALCULATED FILL BEHIND CASING (Linear Feet)
16"		ΛВΛ	Surface	92'	Surf - 92'	35 psi	80,
7"	23#	K-55, LTC	Surface	3022'	Surf - 3022'	1300 psi	3022'
	<u> </u>		<u>i                                     </u>				
	1	(Altach a complete	dritting program inc	luding wellbore so	hematics in addition to t	he above casing program.)	
Estimated dep	oth of base	of fresh water:	575' A	Inticipated ged	ological markers: <u>S</u>	isquoc, 1400' (Name, depth)	
	4.3.4	1.1.				•	
Intended zone	(s) of com	pletion: Sisquo		and expected pre	sarra )	Estimated total	1 depth: 3022
			lately of chan	ges to the pro	•		e a true and accurate
Name of Operator ERG Operation		y LLC					
Address 6085 Cat Can	,	***************************************	,		City/State Santa Maria, Calif	ornia	Zip Code 93454
Name of Person F Ben Oakley	iling Notice		Telephone Number 805-361-7112		Signature 3	15.5	Date 3/30/12
Individual to conta	ct for technic	al questions:	relephone Number.		E-Mail Address		
Ben Oakley			805-361-7112	į	boakley@ergresou	rces.com	
This notice s	nd an ind	empily or cash	hand shall be	filed and en	nroval riivan, hafo	re drilling begins W	onerations have not

commonced within one year of the Division's receipt of the notice, this notice will be considered cancelled.

OG105 (08/09)

Date: 3/28/2012

**ERG Operating Company** 



#### CAT CANYON FIELD SUMMARY DRILLING PROGRAM

Los Alam, dileisher 322-DS

Surface Location:
Longitude = -120.292219° (NAD 83)
Latitude = 34.809509° (NAD 83)
4318' South & 931' East from NW Cor Sec 31
Section 31-T9N-R32W, SBB&M
Santa Barbara County, CA
GL Elev.: 1090'

All Depths are relative to RKB at 1102', 12ft above GL

#### Pre-Spud

- · Secure all necessary permits.
- Set 16' ABA Conductor to 92' RKB (80' GL)

#### Proposed Work:

- 1. MIRU Drilling rig. Post permits in appropriate/conspicuous location.
- 2. Nipple up 11" Class 2A BOPE with 6" diverter system.
- 3. Pick up 9-7/8" Bit, Mud Motor, and Directional BHA. Clean out conductor to 92'.
- 4. Directionally drill 9-7/8" hole from 92' to 3022' with 10.0 ppg Gel based mud.
- 5. Run E-logs.
- 6. RIH and cement 7" 23# K-55 LTC production string f/ 3022' to surface.
- 7. Nipple down BOPE, secure well, release rig.

DRILTEK

Prepared by: Kelsey Gallegos



Field: CAT CANYON Site: SECTION 31 Well: 322-DS

Wellpath: 322-DS

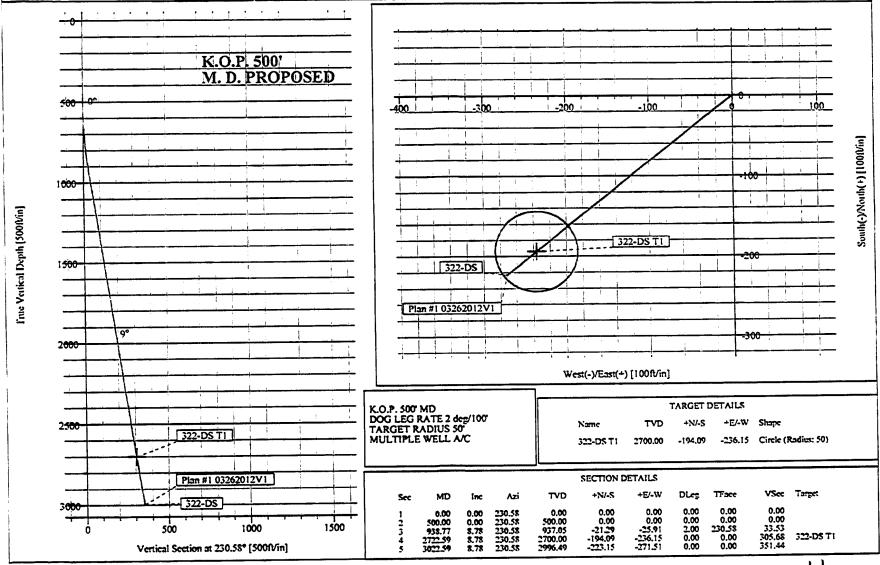
Plan: Plan #1 03262012V1





Azimuths to Grid North True North: 1.31° Magnetic North: 14.39°

Magnetic Field Strength: 47493nT Dip Angle: 59.11° Date: 3/26/2012 Model: IGRF2010





0.00

Section 2: Start Build 2.00

Inch

Azim

500.00

AID

## SCIENTIFIC DRILLING



#### Planning Report

Date: 3/26/2012 Time: 22:26:37 Page: Company: ERG CAT CANYON SECTION 31 Co-ordinate(NE) Reference: Woll: 322-DS, Grid North Field: Vertical (TVD) Reference: 322-DS 1101.6 Site: Well (0.00N,0.00E,230.58Azi) Plan #1 03262012V1 Section (VS) Reference: 322-DS Well: Wellpath: 322-DS Field: CAT CANYON SANTA BARBARA COUNTY CALIFORNIA, USA Map System: US State Plane Coordinate System 1983 California, Zone V Map Zone: Coordinate System: Well Centre Geo Datum: GRS 1980 Sys Datum: Mean Sea Level Geomagnetic Model: IGRF2010 SECTION 31 SEC. 31, T9N, R32W, SB B&M **SANTA BARBARA COUNTY** Northing: 2124000.00 ft Latitude: 25.866 N Site Position: 5873000.00 ft Longitude: 120 17 39.933 W Easting: Map From: Position Uncertainty: 0.00 ft North Reference: Grid -1.31 deg 0.00 ft Grid Convergence: Ground Level: Slot Name: 322-DS Well: SUR. N 2124826.19, E 5873669.95 DPSI +N/-S 826.19 ft Northing: 2124826.19 ft 34 48 34.187 N 120 17 32.127 W Latitude: Well Position: +E/-W 669.95 ft Easting : 5873669.95 R Longitude: Position Uncertainty: 0.00 ft Drilled From: Surface Wellpath: 322-DS 0.00 R Tle-on Depth: Mean Sea Level Height 1101.62 ft Above System Datum: Current Datum: 322-DS 13.08 deg 59.11 deg 3/26/2012 Declination: Magnetic Data: Mag Dip Angle: Field Strength: 47493 nT Direction Vertical Section: Depth From (TVD) +N/-S +F/-W ft deg A ft 230.58 0.00 0.00 0.00 3/26/2012 Plan #1 03262012V1 Date Composed: Plan: Verslon: From Surface Principal: Ticd-to: Plan Section Information +E/-11 DLS Bulld TFO Target TVD +N/-S Turn MD Incl Azim deg/100ft deg/100ft deg/100ft deg ft Ħ deg deg ft ft 0.00 0.00 0.00 0.00 0.00 230.58 0.00 0.00 0.00 0.00 230.58 0.00 0.00 0.00 0.00 0.00 500.00 0.00 500.00 0.00 938.77 8.78 230.58 937.05 -21.29 -25.91 2.00 2.00 0.00 230.58 322-DS T1 0.00 2722.59 230.58 2700.00 -194.09 -236.15 0.00 0.00 0.00 8.78 0.00 0.00 0.00 0.00 3022.59 8.78 230.58 2996.49 -223.15 -271.51 Section 1 : Start Hold +F/-W 1'S DLS Hulld Turn TFO MD Incl Azim TVD +N/-S deg/100ft deg/100ft deg/100ft deg ft ft R ft deg deg ft 0.00 0.00 0.00 230.58 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 230.58 100.00 0.00 0.00 0.00 0.00 0.00 0.00 230.58 100.00 200.00 0.00 230.58 200.00 0.00 0.00 0.00 0.00 0.00 0.00 230.58 230,58 300.00 0.00 230.58 300.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 230.58 230.58 230.58 400.00 0.00 400.00 0.00 0.00 500.00 0.00 0.00 0.00 0.00 0.00 230.58

Ŕ	deg	deg	ft	ft	R	R	deg/100f	t deg/100/	t deg/100ft	deg	
600,00	2.00	230.58	599.98	-1.11	-1.35	1.75	2.00	2.00	0.00	0.00	
700.00	4.00	230.58	699.84	-4.43	-5.39	6.98	2.00	2.00	0.00	0.00	
800.00	6.00	230.58	799.45	-9.96	-12.12	15.69	2.00	2.00	0.00	0.00	
900.00	8.00	230.58	898.70	-17.70	-21.54	27.88	2.00	2.00	0.00	0.00	
938.77	8.78	230.58	937.05	-21.29	-25.91	33.53	2.00	2.00	0.00	0.00	

٧s

DLS

Bulld

Turn

TFO

+E/-\Y

0.00

+N/-S

TVD



# SCIENTIFIC DRILLING



l'age:

2

# **Planning Report**

Company: ERG
Field: CAT CANYON
Site: SECTION 31
Well: 322-DS
Wellpath: 322-DS

Date: 3/26/2012 Time: 22:26:37
Co-ordinate(NE) Reference: Well: 322-DS, Grld North
Vertical (TVD) Reference: 322-DS 1101.6
Section (VS) Reference: Well (0.00N,0.00E,230.58Azi)
Plan: #1 03262012V1

AID R	Incl deg	Azim deg	TVD	+N/-S R	+E/-W R	VS R	DLS deg/100f	Build deg/100ft	Turn deg/100ft	TFO deg
1000.00	8.78	230,58	997.57	-27.22	·33.12	42.88	0.00	0.00	0.00	0.00
1100.00	8.78	230.58	1096.40	-36.91	-44.91	58.13	0.00	0.00	0.00	0.00
1200.00	8.78	230.58	1195.23	·46.60	-56.70	73.39	0.00	0.00	0.00	0.00
1300.00	6.78	230.58	1294.06	-56.29	-68.48	88.64	0.00	0.00	0.00	0.00
1400.00	8.78	230.58	1392.89	-65.97	-80.27	103.90	0.00	0.00	0.00	0.00
1500.00	8.78	230.58	1491.72	-75.66	-92.05	119.16	0.00	0.00	0.00	0.00
1600.00	8.78	230.58	1590.55	-85.35	·103.84	134.41	0.00	0.00	0.00	0.00
1700.00	8.78	230.58	1689.38	-95.03	-115.63	149.67	0.00	0.00	0.00	0.00
1800.00	8.78	230.58	1788.21	-104.72	-127.41	164.92	0.00	0.00	0.00	0.00
1900.00	8.78	230.58	1887.03	-114.41	-139.20	180.18	0.00	0.00	0.00	0.00
2000.00	8.78	230.58	1985.86	-124.09	-150.98	195.44	0.00	0.00	0.00	0.00
2100.00	8.78	230.58	2084.69	-133.78	-162.77	210.69	0.00	0.00	0.00	0.00
2200.00	8.78	230.58	2183.52	-143.47	-174.56	225.95	0.00	0.00	0.00	0.00
2300.00	8.78	230.58	2282.35	-153.15	-186.34	241.20	0.00	0.00	0.00	0.00
2400.00	8.78	230.58	2381.18	-162.84	-198.13	256.46	0.00	0.00	0.00	0.00
2500.00	8.78	230.58	2480.01	-172.53	-209.91	271.72	0.00	0.00	0.00	0.00
2600.00	8.78	230.58	2578.84	-182.21	-221.70	286.97	0.00	0.00	0.00	0.00
2700.00	8.78	230.58	2677.67	-191. <del>9</del> 0	-233.49	302.23	0.00	0.00	0.00	0.00
2722.59	8.78	230.58	2700.00	-194.09	-236.15	305.68	0.00	0.00	0.00	0.00

Section 4	: Start Ho	id									 
NID R	Incl deg	Azim deg	TVD	+N/-S R	+}:/-\\` A	VS R	DLS deg/100ft	Bulld deg/100ft	Turn deg/100ft	TFO deg	 
2800.00 2900.00 3000.00 3022.59	8.78 8.78 8.78 8.78	230.58 230.58 230.58 230.58	2776.50 2875.33 2974.16 2996.49	-201.59 -211.28 -220.96 -223.15	-245.27 -257.06 -268.85 -271.51	317.48 332.74 348.00 351.44	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	

Survey										** 1.0
NID R	Inci deg	Azim deg	TVD R	+N/-S fi	+EY-W	VS R	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6.00	0.00	230.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	230.58	100.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
200.00	0.00	230.58	200.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
300.00	0.00	230.58	300.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
400.00	0.00	230.58	400.00	0.00	0.00	0.00	0.00	0.00	€.00	MWD
500.00	0.00	230.58	500.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
600.00	2.00	230,58	599.98	-1.11	-1.35	1.75	2.00	2.00	0.00	MWD
700.00	4.00	230.58	699.84	-4.43	-5.39	6.98	2.00	2.00	0.00	MWD
800.00	6.00	230.58	789.45	-9.96	-12.12	15.69	2.00	2.00	0.00	MWD
900.00	8.00	230.58	898.70	-17.70	-21.54	27.88	2.00	2.00	0.00	MWD
938.77	8.78	230.58	937.05	-21.29	-25.91	33.53	2.00	2.00	0.00	MWD
1000.00	8.78	230.58	997.57	-27.22	-33.12	42.88	0.00	0.00	0.00	MWD
1100.00	8.78	230.58	1096.40	-36.91	-44.91	58.13	0.00	0.00	0.00	MWD
1200.00	8.78	230.58	1195.23	-46.60	-56.70	73.39	0.00	0.00	0.00	MWD
1300.00	8.78	230.58	1294.06	-56.29	-68.48	88.64	0.00	0.00	0.00	MWD
1400.00	8.78	230,58	1392.89	-65.97	-80.27	103.90	0.00	0.00	0.00	MWD
1500.00	8.78	230.58	1491.72	·75.66	-92.05	119.16	0.00	0.00	0.00	MWD
1600.00	8.78	230.58	1590.55	-85.35	-103.84	134.41	0.00	0.00	0.00	MWD
1700.00	8.78	230.58	1689.38	-95.03	-115.63	149.67	0.00	0.00	0.00	MWD
1800.00	8.78	230.58	1788.21	-104.72	-127.41	164.92	0.00	0.00	0.00	MWD
1900.00	8.78	230.58	1887.03	-114.41	-139.20	180.18	0.00	0.00	0.00	MWD
2000.00	8.78	230.58	1985.86	-124.09	-150.98	195.44	0.00	0.00	0.00	MWD
2100.00	8.78	230.58	2084.69	-133.78	-162.77	210.69	0.00	0.00	0.00	MWD
2200.00	8.78	230.58	2183.52	-143.47	-174.56	225.95	0.00	0.00	0.00	MWD
2300.00	8.78	230.58	2282.35	-153.15	-186.34	241.20	0.00	0.00	0.00	MWD
2400.00	8.78	230.58	2381.18	-162.84	-198.13	256.46	0.00	0.00	0.00	MWD



# **SCIENTIFIC DRILLING**



Page:

# **Planning Report**

Company: ERG
Field: CAT CANYON
Site: SECTION 31
Well: 322-DS
Wellpath: 322-DS

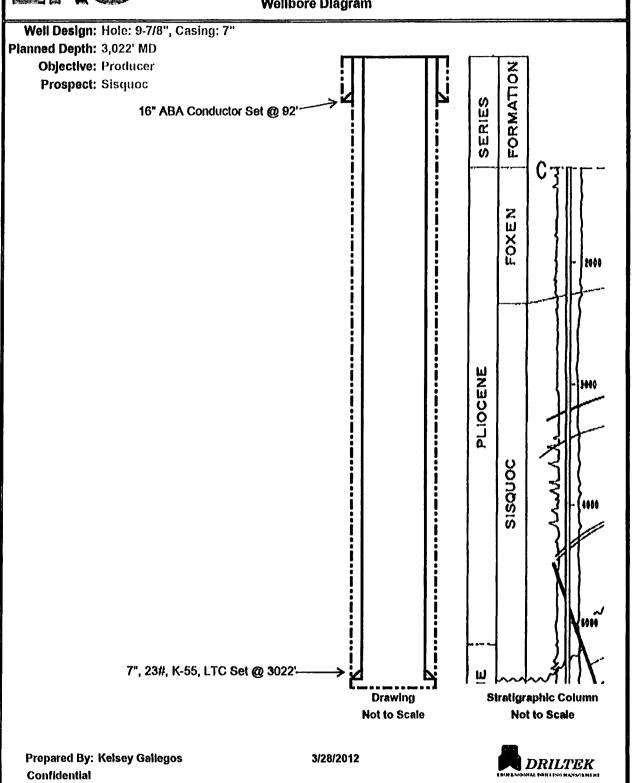
| Date: 3/26/2012 | Time: 22:28:37 |
| Co-ordinate(NE) Reference: Well: 322-DS, Grid North |
| Vertical (TVID) Reference: 322-DS 1101.6 |
| Section (VS) Reference: Well (0.00N,0.00E,230.58Azi) |
| Plan #1 03262012V1

£:	٠.		٠,	

AID R	inci deg	Azlın deg	TVD ft	+n/-s r	+F/-W	VS ft	DLS deg/100f	Bulld I deg/100/t	Turn deg/100ft	TooVComment
2500.00	8.78	230.58	2480.01	-172.53	-209.91	271.72	0.00	0.00	0.00	MWD
2600,00	8.78	230.58	2578.84	-182.21	-221.70	286.97	0.00	0.00	0.00	MWD
2700.00	8.78	230.58	2677.67	-191.90	-233.49	302.23	0.00	0.00	0.00	MWD
2722.59	8.78	230,58	2700.00	-194.09	-236.15	305.68	0.00	0.00	0.00	MWD
2800.00	8.78	230.58	2776.50	-201.59	-245.27	317.48	0.00	0.00	0.00	MWD
2900.00	8.78	230.58	2875.33	-211.28	-257.06	332.74	0.00	0.00	0.00	MWD
3000.00	8.78	230.58	2974.16	-220.96	-268.85	348.00	0.00	0.00	0.00	MWD
3022.59	8.78	230.58	2996.49	-223.15	-271.51	351.44	0.00	0.00	0.00	MWD



#### 322-DS Santa Barbara County, CA Sec31-T9N-R32W SBB&M Wellbore Diagram



#### PRELIMINARY LOCATION OF WELL LA-322-DS LOCATED IN THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 31, TOWNSHIP 9 NORTH, RANGE 32 WEST, S.B.M. COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA THE NORTHEAST CORNER THE NORTHWEST CORNER OF SECTION 31 . N 2128972.94 OF SECTION 31 N 2129161.69 E 5872824.92 . 25 E 5878222.22 36 31 25/29 31 A PORTION OF LOT BY DIS HANGHO LOW ALARSON 80. LA-322-DS N 88'51'37" W 931.11 LATITUDE: 34'48'34.23" LONGITUDE: 120'17'31.99" 800 800' O' LAT(DD): 34.809509 LONG(DD): 120.292219 GRID N: 2124826.1937 GRID E: 5873669.9536 ELEV: 1089.62' SCALE: 1"=800" GEOGRAPHIC COORDINATES PROJECT BENCHMARK BASIS OF BEARINGS THE TOP OF THE 3" DIAMETER BRASS CAP MARKED "SANTA BARBARA CO. SURVEY MON.", AT THE INTERSECTION OF CLARK AVENUE AND DOMINION ROAD DESIGNATED AS STATION NO. 1132 ON RECORD OF SURVEY, BOOK 147, PACES 57-61, WAS USED AS THE BENCH MARK HEREON. CEOGRAPHIC COORDINATES SHOWN HEREON FOR LONGITUDE AND LATITUDE ARE BASED ON CORPSCON CONVERSION FROM INAD83 GEOGRAPHIC COORDINATES TO NAD83 STATE PLANE COORDINATES. THE GRID BEARING OF SOI'44'42'W BETMEEN SANTA BARBARA COURTY SURVEY MONUMENT STATION NO.'S 1131 AND 1132 AS SHOWN ON RECORD OF SURVEY, BOOK 147, PACES 57-61, WAS USED AS THE BASIS OF BEARINGS HEREON ELEVATION = 634.57 (HAVD 88) **NOTES** BUREAU OF LAND MANAGEMENT RECORD HIPORMATION SHOWN HEREON IS ONLY TO BE USED AS RECORD INFORMATION AND NOT AS A BOUNDARY SURVEY. SECTION HIPORMATION PROVIDED IS BASED ON ESTIMATED SECTION LINES HAD THE RANCHO NOT BEEN IN PLACE. 1 ERG Resources, L. Bre **ERG WELL LOCATIONS** \$56 PRELIMINARY LOCATION OF WELL LA-322-DS BARSTAD FROM CT SERVES DRAWN BY: GM CHECKED BY: JGZ DATE: 03/27/12 Ren 15-314

#### NOTICE OF EXEMPTION

TO: Santa Barbara County Clerk of the Board of Supervisors

FROM: Florence Trotter-Cadena

The project or activity identified below is determined to be exempt from further environmental review requirements of the California Environmental Quality Act (CEQA) of 1970, as defined in the State and County Guidelines for the implementation of CEQA.

APN: 101-060-053, -054; 101-070-001 Case No.: 11LUP-00000-00496

Location: The property is located at the intersection of Cat Canyon and Palmer Roads.

Project Title: ERG-Los Alamos Fee

Project Description: ERG proposes to drill a total of 25 oil and gas wells located on 15 existing, disturbed well pads within the Cat Canyon Oil Field on the Los Alamos Fee. All proposed well pads either have existing idle wells or previously plugged and abandoned wells on location. Access to proposed well pads is provided by existing interior roads. Existing, above-ground flowlines and headers would be utilized to transport all production to the existing Los Alamos tank battery. No secondary or enhanced steaming is proposed as part of this project. No grading is proposed as part of this project because all well pads are existing, disturbed sites.

Name of Public Agency Approving Project: Santa Barbara County, Planning and Development

Name of Person or Agency Carrying Out Project: Dianna Beck, SCS Tracer

Exempt Status: (Check one)

Ministerial
Statutory Exemption

Categorical Exemption
Emergency Project
Declared Emergency

Cite specific CEQA and/or CEQA Guideline Section: 15303- New Conversions or Construction of Small Structures Reasons to support exemption findings: This section allows for existing facilities and the construction or conversion of a small structure from one use to another, such as single family dwellings, to be exempt from environmental review. The proposed project is for 25 exploratory wells located on 15 previously disturbed areas for oil production, which will go into production if viable. If the wells prove to be unproductive they would be plugged and abandoned in accordance with the Division of Oil and Gas.

ERG proposes to drill a total of 25 oil and gas wells located on 15 existing, disturbed well pads within the Cat Canyon Oil Field on the Los Alamos Fee. All proposed well pads either have existing idle wells or previously plugged and abandoned wells on location. Access to proposed well pads is provided by existing

interior roads. Existing, above-ground flowlines and headers would be utilized to transport all production to the existing Los Alamos tank battery. No secondary or enhanced steaming is proposed as part of this project. No grading is proposed as part of this project because all well pads are existing, disturbed sites. Please see the attached site plan for proposed well pad locations.

Regional access to the Los Alamos Fee is provided by Cat Canyon Road (paved, approximately 25-30 feet wide). Local access to the proposed well pads is provided by existing interior roads (some unpaved, some paved, approximately 20-25 feet wide). The main entrance along Cat Canyon Road (to Old Rig Road) is gated to prevent public access during drilling operations. The closest residence to any proposed well pad is greater than 0.5 miles away.

A tentative drilling schedule for the 25 wells would include mobilization, drilling, and de-mobilization with the complete process requiring approximately 12 months. Each well should take approximately 11 days to complete. The 11 days designated for drilling and logging at each well is the time that engines powering the rig would be in operation. Equipment used during the drilling phase would include a drill rig (approximately 110 feet in height) and pumping units (approximately 15 to 20 feet in height). The drill rig is temporary and would be removed upon completion of the wells. Engines powering the drill rig would be in the Statewide Portable Equipment Registration Program (PERP) and would comply with program requirements including engine tier specifications. The maximum expected pressure at the well head during drilling is 0 psi. Drilling operations would occur 24 hours per day, 7 days per week until completion. Since drilling operations would occur 24 hours per day, the minimum amount of lighting needed for site safety would be provided. All lighting would be oriented downward and towards the project site.

Secondary or enhanced steaming is not proposed as part of this project. The composition of the produced gas is expected to be consistent with natural gas (high content of methane and ethane). A gas analysis will be provided as soon as it becomes available. Hazardous materials on site will be consistent with typical oil field production. Materials may include scale inhibitor, water clarifier, demulsifier, and diluent. All materials will be included in the existing Hazardous Materials Business Plan, stored in secondary containment, and disposed of properly. Additionally, the existing Spill Prevention Control and Countermeasure (SPCC) Plan for Cat Canyon Oil Field would be updated to include this project. Containment areas would be constructed as required by SPCC regulations to prevent discharges.

The anticipated number of truck trips generated by this project is as follows:

	Truck	Truck Trips		
	Trips	(Daily	Expected	
Phase	(Pcak)	Avg.)	Duration	Notes
1) Site Preparation	2	2	21 days	-One scraper to prep sites, 8 hours a day for 21 days (left on site overnight for next day use)
	2	2	21 days	-One light duty gasoline truck, 2 trips for 21 days
2) Drilling	4	4	275 days	-One light duty truck, 4 trips for 275 days
	2	2	275 days	-One heavy duty truck, 2 trips for 275 days
3) Production,	2	2	Ongoing	-Light duty vehicles for maintenance

Processing			1
and	:		
Maintenance			

Proposed permanent production equipment would include pumping units at each of the 20 wells and use of existing flow lines to existing headers. Existing flowlines and headers would be tested for leaks and would be repaired or replaced as necessary. The headers would transport produced fluids to the existing tank battery. Please see the attached process flow diagram for more detail. The maximum expected pressure at the well head during production is 1,000 psi.

If the wells prove to be unproductive, they would be plugged and abandoned in accordance with California Department of Conservation Division of Oil, Gas and Geothermal Resources (DOGGR), and Santa Barbara County Petroleum Division standards. Any constructed production wells deemed to be at the end of their productive life would be plugged and abandoned according to DOGGR, and Santa Barbara County Petroleum Division standards. Following well abandonment, graded pads would be cleared of debris and any facility items including pipelines. Special soil remediation is not expected to be necessary since there is no proposal to use or inject environmentally incompatible chemicals or solvents at the well sites. Re-contouring of areas would not be required.

<b>Existing Permitted Equipment</b>	Description
(APCD) - Los Alamos Fee ::	
Wash Tank	3,000 BBL, 29.7 ft. diameter, 24 ft. height
Wastewater Tank	2,000 BBL, 29.7 ft. diameter, 16 ft. height
Crude Tank	500 BBL, 15.4 ft. diameter, 16 ft. height
Separator	3.5 ft. diameter, 8 ft. height
Petrotherm Heater	1.2 MMbtu
Petrotherm Heater	1.2 MMbtu
Flowlines	Existing flowlines from well pads to headers
Headers	Existing headers transporting produced fluids to existing tank
	battery
<b>Existing Permitted Equipment</b>	Description
(APCD) - Williams Holding	
Lease	
Gas Gathering Compressor/	Compressor is mounted on a Compressco V-Jack Compressor skid
Scrubber	which includes a 20 inch diameter by 60 inch s/s inlet scrubber.
	Maximum flow rate = 100 mcfd at 50 psi discharge pressure.
Flare	Air assisted open pipe flare equipped with a 300 cfm blower, two
	continuous pilots, and a temperature and pressure meter.
Pending Permitted Equipment	Description
(APCD) – Los Alamos Lease	
Wastewater Tank	2,000 BBL, 29.7 ft. diameter, 16 ft. height
Test Tank	500 BBL, 15.4 ft. diameter, 16 ft. height
Vapor Recovery Compressor	Vapor recovered by electric driven compressor servicing the
	following equipment with an efficiency of 95% at each vapor
	recovery point: wash tank, wastewater tanks, crude tank and test

	tank. The vapor recovery system includes all piping, valves, and flanges associated with the VRC. All vapors from VRC routed to compressor on GWP Lease.
Proposed Equipment	Description
25 pumping units	Approximately 15-20 ft. in height
Temporary Equipment	Description
Drilling Rig	Diesel engine, registered with CARB, approximately 110 ft. in height

There is no substantial evidence that the proposed project involves unusual circumstances, including future activities, resulting in or which might reasonably result in significant impacts which threaten the environment. The exceptions to the categorical exemptions pursuant to Section 15300.2 of the State CEOA Guidelines are:

(a) Location. Classes 3, 4, 5, 6, and 11 are qualified by consideration of where the project is to be located -- a project that is ordinarily insignificant in its impact on the environment may in a particularly sensitive environment be significant. Therefore, these classes are considered to apply all instances, except where the project may impact on an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies.

The 25 exploratory wells and associated equipment would be located on 15 previously disturbed areas for oil production within an area of biological resources. However, BMP's proposed by the applicant and included in the project description would ensure that the impacts are less than significant. Access to the project site area would continue to be provided by existing oilfield roads. No water flooding, hydraulic fracturing, or steam generation is proposed as a part of this project.

(b) Cumulative Impact. All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant.

The proposed project will not cause a significant cumulative impact, as the project is for 25 exploratory wells located on 15 previously disturbed areas for oil production, located in the AG-II-100 zone district in an area that is appropriate for this development. Therefore, the project will not result in a significant cumulative impact.

(c) Significant Effect. A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.

There are no unusual circumstances surrounding the proposed project and there is not a reasonable possibility that the project would have a significant effect on the environment due to unusual circumstances. BMP's proposed by the applicant and included in the project description would ensure that the impacts are less than significant. Therefore, the project will not result in a significant cumulative impact.

(d) Scenic Highways. A categorical exemption shall not be used for a project which may result in damage to scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway. This does not apply to improvements which are required as mitigation by an adopted negative declaration or certified EIR.

Although the proposed project would include 25 exploratory wells located on 15 previously disturbed areas for oil production which will go into production if viable, no additional ground disturbance would occur and would not be visible from a designated scenic highway. The project would not result in damage to scenic resources, including but not limited to, trees, historic buildings, or rock outcroppings.

(c) Hazardous Waste Sites. A categorical exemption shall not be used for a project located on a site which is included on any list compiled pursuant to Section 65962.5 of the Government Code.

The project is not located on a site which is included on any list compiled pursuant to Section 65962.5 of the Government Code.

(f) Historical Resources. A categorical exemption shall not be used for a project which may cause a substantial adverse change in the significance of a historical resource.

The proposed project would not result in any substantial adverse change in the significance of a historical resource.

	rision Representative: J. Matth. July Date: 1-27-/.	2
distribution:	Hearing Support Staff	
Date Filed by C	ounty Clerk:	

G:\GROUP\PERMITTING\Case Files\LUP\11 Cases\11LUP-00000-00496 ERG Resources\CEQA Exemption Notice.doc

